

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A driving apparatus of a touch panel, comprising:

a touch panel for generating a coordinate signal corresponding ~~according~~ to a position of a contact point;

a selector including at least two interface integrated circuits having communication standards different from each other, the at least two interface integrated circuits being formed in one touch controller ~~connected to the touch panel~~;

a computer system driving the touch panel and connected to any one of the at least two interface integrated circuits;

a sensor for ~~automatically~~ detecting the presence of the interface integrated circuit connected to the computer system among the at least two interface integrated circuits; and

a controller for converting the coordinate signal into a coordinate value having X-axis and Y-axis suitable for ~~in accordance with~~ the interface integrated circuit detected at the sensor and transmitting the coordinate value ~~converted coordinate signal~~ to the computer system,

wherein the selector selects a communication channel between the controller and the interface integrated circuit connected to the computer system.

2. (Original) The driving apparatus according to claim 1, wherein at least one of the interface integrated circuit and the sensor is integrated with the controller.

3. (Currently Amended) The driving apparatus according to claim 1, wherein

the controller includes:

an analog-to-digital converter for converting an coordinate signal of analog input from the touch panel into a coordinate signal of digital; and

a microcomputer for converting the digital coordinate signal into ~~[[a]]~~ the coordinate value having X-axis and Y-axis suitable for ~~in accordance with~~ the interface integrated circuit detected ~~sensed~~ at the sensor; ~~and~~

~~a selector for selecting the interface integrated circuit sensed at the sensor among the at least two interface integrated circuits.~~

4. (Original) The driving apparatus according to claim 3, wherein the sensor is integrated with the microcomputer.

5. (Original) The driving apparatus according to claim 1, further comprising:
at least two transmitting connectors corresponding to the at least two interface integrated circuits; and
at least two receiving connectors corresponding to the at least two transmitting connectors.

6. (Original) The driving apparatus according to claim 1, wherein the interface integrated circuit connected to the computer system includes serial communication.

7. (Currently Amended) The driving apparatus according to claim 5 ~~[[6]]~~, wherein the sensor senses a sense control signal generated from the transmitting connector corresponding to the interface integrated circuit connected to the computer

system when ~~[[a]]~~ the transmitting connector ~~corresponding to the interface integrated circuit connected to the computer system~~ is connected to ~~[[a]]~~ the receiving connector corresponding to the transmitting connector.

8. (Original) The driving apparatus according to claim 1, wherein the interface integrated circuit connected to the computer system includes USB communication.

9. (Currently Amended) The driving apparatus according to claim 5 ~~[[8]]~~, wherein the sensor senses ~~computer system transmits~~ a sense control signal generated from the computer system to the sensor when the transmitting connector corresponding to the interface integrated circuit connected to the computer system ~~the computer system~~ is connected to ~~the interface integrated circuit~~ the receiving connector corresponding to the transmitting connector.

10. (Canceled)

11. (Currently Amended) A method for driving a touch panel device, comprising:

generating a coordinate signal corresponding ~~according~~ to a position of a contact point

~~driving the touch panel to be connected to any one of at least two interface integrated circuits;~~

[automatically] detecting the presence of [the] an interface integrated circuit connected to a computer system among at least two interface integrated circuits having

communication standards different from each other, the at least two interface integrated circuits being formed in one touch controller [[and]]

converting the coordinate signal in accordance with into a coordinate value having X-axis and Y-axis suitable for the interface integrated circuit detected at [the] a sensor by a controller;

selecting a communication channel between the controller and the interface integrated circuit connected to the computer system; and

transmitting the converted coordinate signal coordinate value to the computer system via the communication channel and the interface integrated circuit connected to the computer system.

12. (Currently Amended) The method according to claim 11, wherein the step of converting includes:

converting a coordinate signal of an analog input from the touch panel into a digital coordinate signal;

converting the digital coordinate signal into [[a]] the coordinate value having X-axis and Y-axis suitable for in accordance with the interface integrated circuit detected sensed at the sensor; and

selecting the interface integrated circuit sensed at the sensor among the at least two interface integrated circuits.

13. (Currently Amended) The method according to claim 11, wherein the steps of transmitting the coordinate value driving the touch panel and converting the coordinate signal include serial communication.

14. (Currently Amended) The method according to claim 11, wherein the steps of transmitting the coordinate value ~~driving the touch panel and converting the~~ ~~coordinate signal~~ include USB communication.

15. (Currently Amended) The method according to claim 14, wherein the step of detecting the presence of the interface integrated circuit ~~driving the touch panel~~ includes transmitting a sense control signal generated from the computer system ~~to the~~ ~~sensor~~ when the computer system is connected to the interface integrated circuit.